SECURING

the Energy Infrastructure: Essential Strategies

DATA SECURE

May 6-7, 2002
Key Bridge Marriott
Arlington, Virginia

Sponsored by

KEMA Consulting

I N T R O D U C T I O N

This groundbreaking conference offers a compelling assessment of today's security landscape and the opportunity to understand major security tasks and approaches to safeguarding the national energy infrastructure.

The conference sessions will include such critical discussions as: coordinating the industry's response; enterprise-wide security management; government perspective on threats and strategies; securing the operational environment and architectures; safeguarding real-time control issues; migration to a secure infrastructure; protection, response, and recovery tactics; and assistance of new technologies for the reinforcement of security in the energy sector.

The first day of the conference will cover: industry concerns of developing essential strategies; preparing a business case for security; coordinating the industry's mobilization against potential threats; continuity of business operations; legal clarifications; the need for a National Infrastructure Protection Center; and the security vulnerabilities facing utilities in today's environment. The second day will provide a close-up view of: industry standards initiatives for security; specific practices used for physical and cyber security; communications and data security issues; authentication, privacy, and repudiation techniques; threat assessment; risk management; Internet security; and the protection of real-time systems and data in the corporate environment.

Join your colleagues for an insightful, interactive seminar that addresses issues of increasing global importance.

Who Should Attend?

- **Chief Information Officers**
- **Government Officials**
- **Security Managers and Directors**
- **Directors of Operation**
- **Utility Managers**
- **Risk and Project Managers**
- **IT Security Administrators**
- **All other personnel involved in operations and concerned about cyber and physical security of utility systems and data**

B E N E F I T S

- Learn from the experience of leading industry specialists.
- Discover major strategies that can best protect utilities' assets.
- Gain the latest perspective in understanding how to minimize utilities' vulnerabilities.
- Learn how to respond to crisis situations and how to overcome security breaches.
- Understand the latest security technologies in IT administration and the EMS/SCADA world.
- Learn about the efforts undertaken by the government and standardization organizations to assist utilities in reinforcing national security.
- Share your concerns on security issues during the panel discussions with other utility personnel.

KEMA Consulting is pleased to present this conference with the most relevant and timely information concerning the security of utility infrastructure today.

Sunday May 5, 2002

6:00 p.m. – 9:00 p.m.
Registration – Wine and Cheese Reception

Monday May 6, 2002
Morning Session

7:00 a.m. – 8:00 a.m.
Continental Breakfast and Conference Registration

8:00 a.m. – 8:30 a.m.
Opening Remarks

Joseph M. Bucciero
Senior Vice President, Power Delivery Services
KEMA Consulting

8:30 a.m. – 9:30 a.m.
An Approach Toward Developing Essential Strategies
- The need to adopt an approach to action to address the security of the energy infrastructure.
- An approach to achieving corporate focus on the issue of security.
- Organizing a security assessment.

Walter A. Johnson
General Manager/Principal Engineer
Potomac Electric Power Company

9:30 a.m. – 10:15 a.m.
Involving Management Enterprise-wide
- Managing a security assessment.
- Building a business case for action.
- Integrating recommendations into business plans and organizational missions.

Herman Green
Project Manager
Alliant Energy

10:15 a.m. – 10:30 a.m.
Break

10:30 a.m. – 11:00 a.m.
Legal Bulletproofing of a Utility
- Duty to employees, surviving relatives, and in case of a shut down, former employees.

- Duty to all those physically present, or who are damanged by release of toxic/radioactive materials (personal injury actions).
- Duty to utility users, contracting entities, and tenants (business interruption, consequential damages).

Don Buzelli
Chief Executive Officer
Anti-Terrorist Operations Group (ATOG)

11:00 a.m. – 11:45 a.m.
Coordinating the Industry
- The charter and activities of the NERC CIP Advisory Group.
- The creation of an Information Sharing and Analysis Center (ISAC) for the electric sector.
- The coordination of activities with other critical industry sectors.

Lou Leffler
Manager, Projects
North American Electric Reliability Council (NERC)

11:45 a.m. – 1:45 p.m.
Lunch Session

12:15 p.m. – 1:00 p.m.
Luncheon Keynote 1 – Essential Strategies:
The Utility's View
This discussion will focus on the issues surrounding securing the energy infrastructure from the viewpoint of the electric utility industry.

John M. Derrick
Chairman of the Board and
    Chief Executive Officer
Potomac Electric Power Company

1:00 p.m. – 1:45 p.m.
Luncheon Keynote 2 – Essential Strategies:
The Government's View
This discussion will delve into the federal government's role in assuring the security of the energy infrastructure.

General John McBroom
Director, Office of Energy Protection Operations
Department of Energy

"Why are we waiting for the next year when the danger is here now?
While we debate, they plan. While we defer, they prepare."

– Senator Edward M. Kennedy

1:45 p.m. – 2:00 p.m.
Break

Afternoon Session

2:00 p.m. – 2:45 p.m.
Threats and Warnings – The National Infrastructure Protection Center's Role
- Background on the need for the creation of the NIPC.
- NIPC's operations and interface with government and industry.
- The importance and effectiveness of an Indications, Analysis, and Warnings (IAW) system.

   Harvey Blumenthal
   Unit Chief, ISAC Development
         and Support Unit
   National Infrastructure Protection Center (NIPC)

2:45 p.m. – 3:30 p.m.
Threats and Warnings – An Electric Utility's Participation in the NIPC-IAW Program
- Why participation is essential to protect the critical infrastructure.
- Reporting threats and incidents – who, how, when.
- Disseminating threat and incident warnings throughout regions.

   Kevin Perry
   Manager, Information Technology
   Southwest Power Pool

3:30 p.m. – 3:45 p.m.
Break

3:45 p.m. – 4:30 p.m.
The Electric System Operational Landscape
- What are the security vulnerabilities facing utilities?
- Why "open systems" increase the utilities' exposure to attack.
- Back-up planning and business continuity planning.
- The need for improved intrusion prevention and detection.

   John Holt
   Consultant
   KEMA Consulting

4:30 p.m. – 5:15 p.m.
Information Security Needs and Issues for Electric Utility Control Systems
- What are the security problems facing utilities today?
- Why are they unique?
- What are we doing about them?
- Who is working on them?

   Joe Weiss
   Technical Manager
   Electric Power Research Institute (EPRI)

5:15 p.m. – 6:00 p.m.
Panel Discussion
The panel discussion will include all of the day's speakers in a panel for questions and discussion with the audience.

6:00 p.m. – 9:00 p.m.
Networking Cocktail Reception

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"The price of indifference could be catastrophic."

– President George W. Bush

DAY 2

Tuesday May 7, 2002
Morning Session – Migration to Security

7:30 a.m. – 8:00 a.m.
Continental Breakfast

8:00 a.m. – 8:15 a.m.
Opening Remarks

Joseph M. Bucciero
Senior Vice President, Power Delivery Services
KEMA Consulting

8:15 a.m. – 9:00 a.m.
Current IEC Activities on Securing Utility Data and Communications and a Vision for the Future

- IEC TC 57 WG 15 activities.
- The protection profile for TASE 2.
- The lessons learned.
- Timeframe for completion.
- Vision for the future of utility communication and control security from the perspective of Scandia National Laboratories and the U.S. Government.

Rolf Carlson
Program Manager
Scandia National Laboratories, TC 57 WG 15

9:00 a.m. – 9:45 a.m.
Getting to Secure

- Physical and cyber security practices for the electrical sector, with a focus on RTOs and reliability authorities.

Kevin Perry
Manager, Information Technology
Southwest Power Pool

9:45 a.m. – 10:30 a.m.
Securing SCADA Systems

- Existing SCADA system technologies and migration to more secure technical solutions.

- Use of traditional media compared to newer practices.
- Impact of standards on security.

Brent Brobak
Senior Engineer
Alstom ESCA

10:30 a.m. – 10:45 a.m.
Break

10:45 a.m. – 11:30 a.m.
Security and NERC e-Tagging

- Communication and data security issues impacting electronic tagging (e-Tagging).
- Discussion of authentication, privacy, and repudiation in regard to reference software architecture.
- Threat assessment – use cases to develop a set of functional requirements for security.

Herb Falk
Project Manager
Systems Integration Specialists Company, Inc. (SISCO)

11:30 a.m. – 12:15 p.m.
Integrated Asset Security Solutions

- Risk Assessment
  - What is risk?
  - What is the impact of interruption?
- Planning and Prioritization
  - Available technologies
  - Best practices
- Mitigation—Asset Management
- Technology Solutions
  - Infrastructure monitoring
  - Automation
- Response and Reconstitution
  - Alternative asset redeployment
  - Communication
  - Financial

Mike Unum
Technical Director
GE Network Solutions

"I think we have the capacity to deal with whatever any enemy or enemies can throw in our direction. But there's a need to establish priorities and to build, as quickly as possible, the capacity to respond to the widest range of threats."

– Tom Ridge, Homeland Security Director

12:15 p.m. – 1:00 p.m.
Luncheon

Afternoon Session – Protection, Response, and Recovery

1:00 p.m. – 1:45 p.m.
The Common Criteria: Practical Information Security
- Information security product requirements.
- Historical approaches.
- The common criteria evolution.
- An approach for adopting the common criteria to secure the energy industry.

David M. (Mike) Devaney
Information Technology Professional
Pacific Northwest National Laboratory

1:45 p.m. – 2:30 p.m.
Secure Data Communication and Control in a Real-time Environment
- Integration of SCADA and EMS systems into the corporate environment.
    - Unauthorized access of confidential information.
    - Unauthorized or malicious tampering, including switching of critical power system equipment.
- Perils and solutions recommended in dealing with various aspects of data and control security in an integrated system.
    - RTU data security and protocols.
    - Web site and Internet access.

Bahman Hoveida
President and Chief Executive Officer
Open Systems International

2:30 p.m. – 2:45 p.m.
Break

2:45 p.m. – 3:30 p.m.
Next Generation Internet Security – Beyond Your Firewall
- Outline and discussion of the evolution of Internet-based security: network security; VPNs; client security; and application and e-business security.
- Issues concerning broadband and wireless.
- Discussion of the architectural considerations and what it means to have a "secure" network.

Grant Asplund
Senior Product Manager
Checkpoint

3:30 p.m. – 4:15 p.m.
"Hey vendor, what are you doing about security today?"
- Where are the SCADA products going and how are they going to address security?
- How are future architectures going to help with security issues?
- Current standards group activities.
- The impact of the shift toward Application Service Providers (ASPs).

Paul Skare
Manager, SCADA Development
Siemens

4:15 p.m. – 5:00 p.m.
Preparedness of the Nation's Utility Infrastructure Against Attack Using Commonplace Security
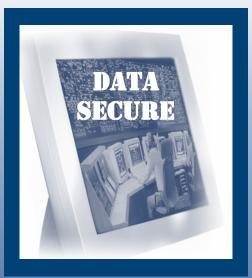- State-of-the-art utility security.
- Are utilities' best practices effective?
- A future view of utility security: Will we be prepared?
- Government/utility information sharing: Do we need better information to better direct utility security efforts?

James Goldston-President, Sword & Shield
    Enterprise Security (SSES)
Dave Icove-Tennessee Valley Authority Police
Jim Fetzer-Tennessee Valley Authority
    Senior Security Specialist

"I wish I could turn the clock back to before September 11th. I wish that we didn't have to talk about threats. I wish we didn't have to make announcements about threats. But the facts are different."

– Attorney General John D. Ashcroft

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Registration Form

Name (please print) _____

Title _____

Company _____

Address _____

City, State, Zip Code _____

e-Mail Address _____

Phone _____ **Fax** _____

☐ **Payment Enclosed**

Charge My: ☐ **American Express** ☐ **VISA** ☐ **MasterCard**

Card Number _____

Expiration Date (mm/yy) _____

Name as Shown on Card _____

Authorized Card Signature _____

Phone: 215-997-4500 ext. 221, 8:30 a.m. – 5:30 p.m. eastern time, Monday – Friday

Fax: 215-997-3818 (24 hours)

Mail: Return Registration Form to: KEMA Consulting
4377 County Line Road
Chalfont, PA 18914
Attention: Karen Christy

e-Mail: security_info@kemaconsulting.com

Web Site: www.kemaseminars.com

Cost: The registration fee for this conference is $1,595. This fee includes all breakfasts, lunches, refreshments, receptions, and the conference proceedings. If you register by May 1, 2002, you can save $245 and pay only $1,350.

Payments: Payments may be made by check, American Express, VISA, and MasterCard. Please make checks payable to KEMA Consulting. Please be sure to include the name of the registrant on the face of the check.

Hotel Accommodations: We have reserved a limited block of rooms with the hotel at a special discounted rate of $135 per night for our attendees. Please contact the hotel directly by April 18, 2002 and be sure to mention that you are a KEMA Consulting conference attendee to receive the discounted room rate. All reservations made after April 18, 2002 will be at the standard room rate of $259 per night.

Venue: Marriott Key Bridge, 1401 Lee Highway, Arlington, VA 22209
800-228-9290 or 703-524-6400

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DON'T MISS!

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4400 Fair Lakes Court

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